

Fig. 1

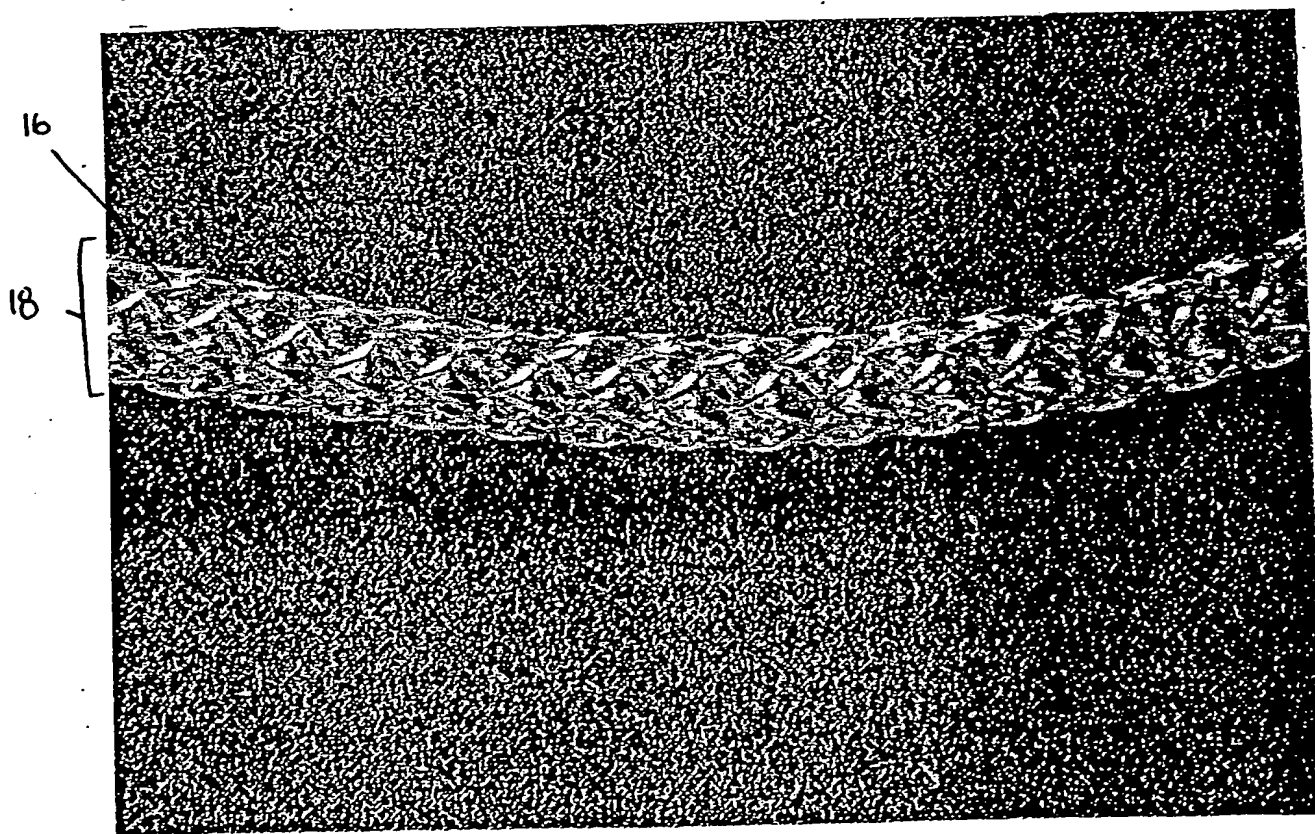


Fig. 2

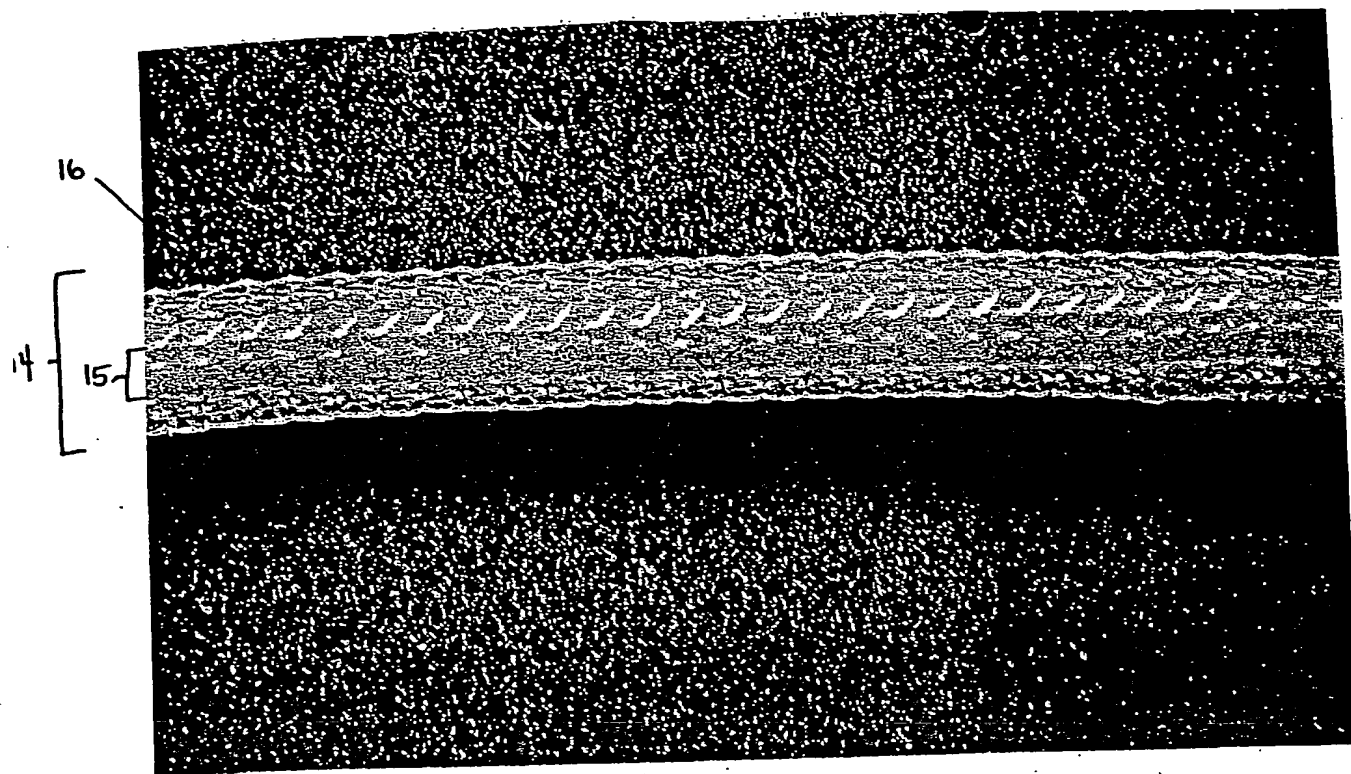


Fig. 2A

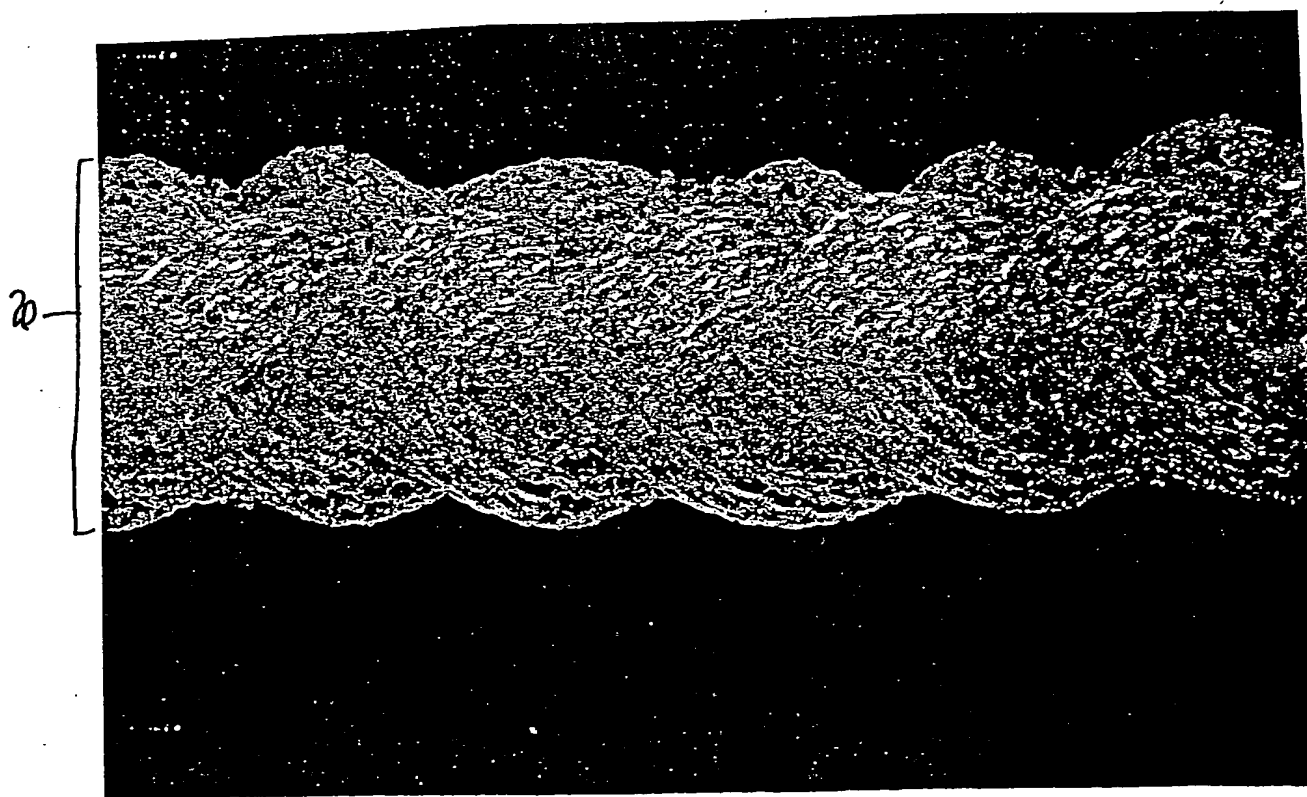


Fig. 3

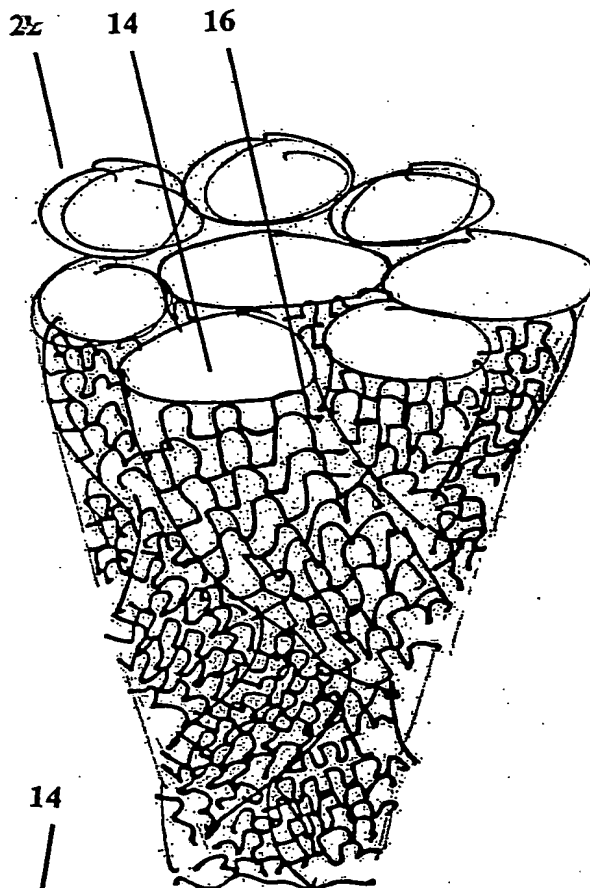


FIG 4

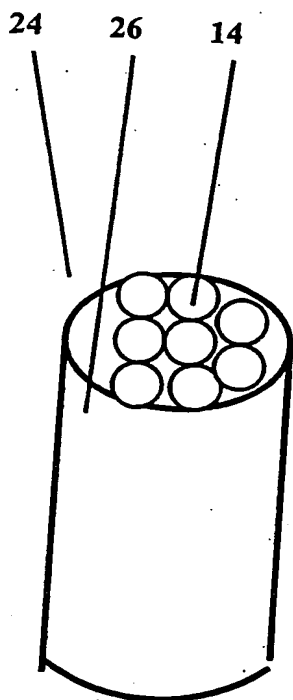


FIG 5A

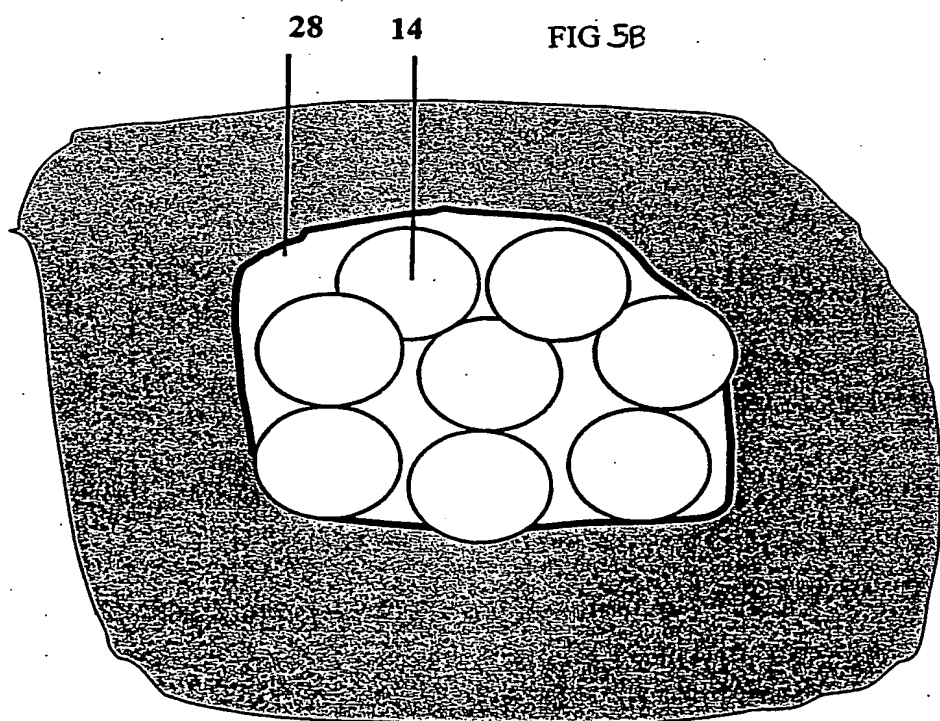
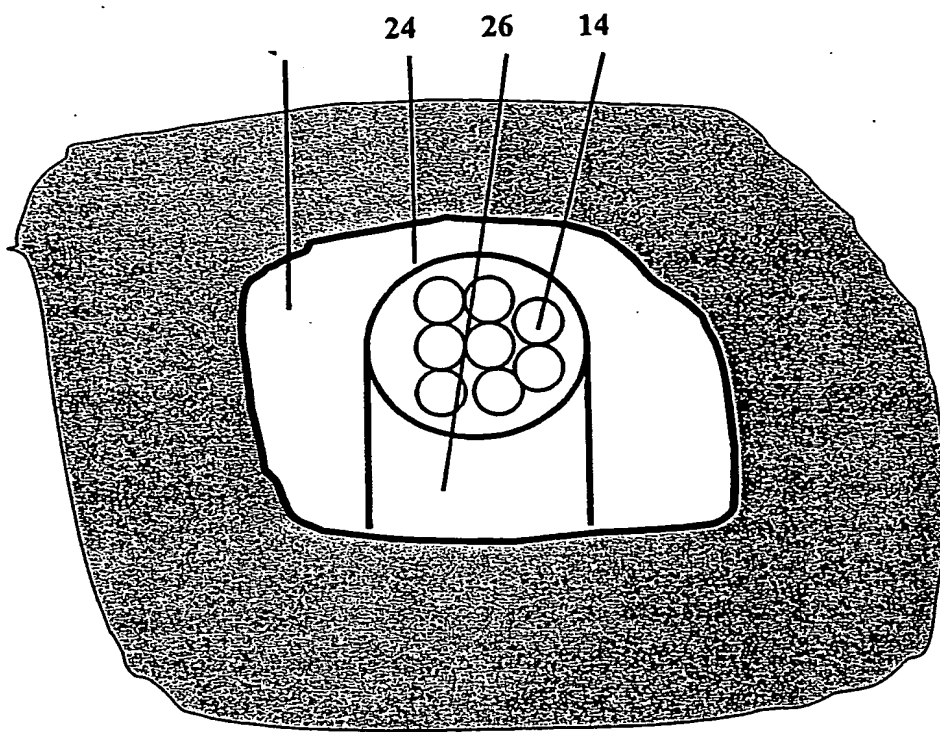


FIG 56

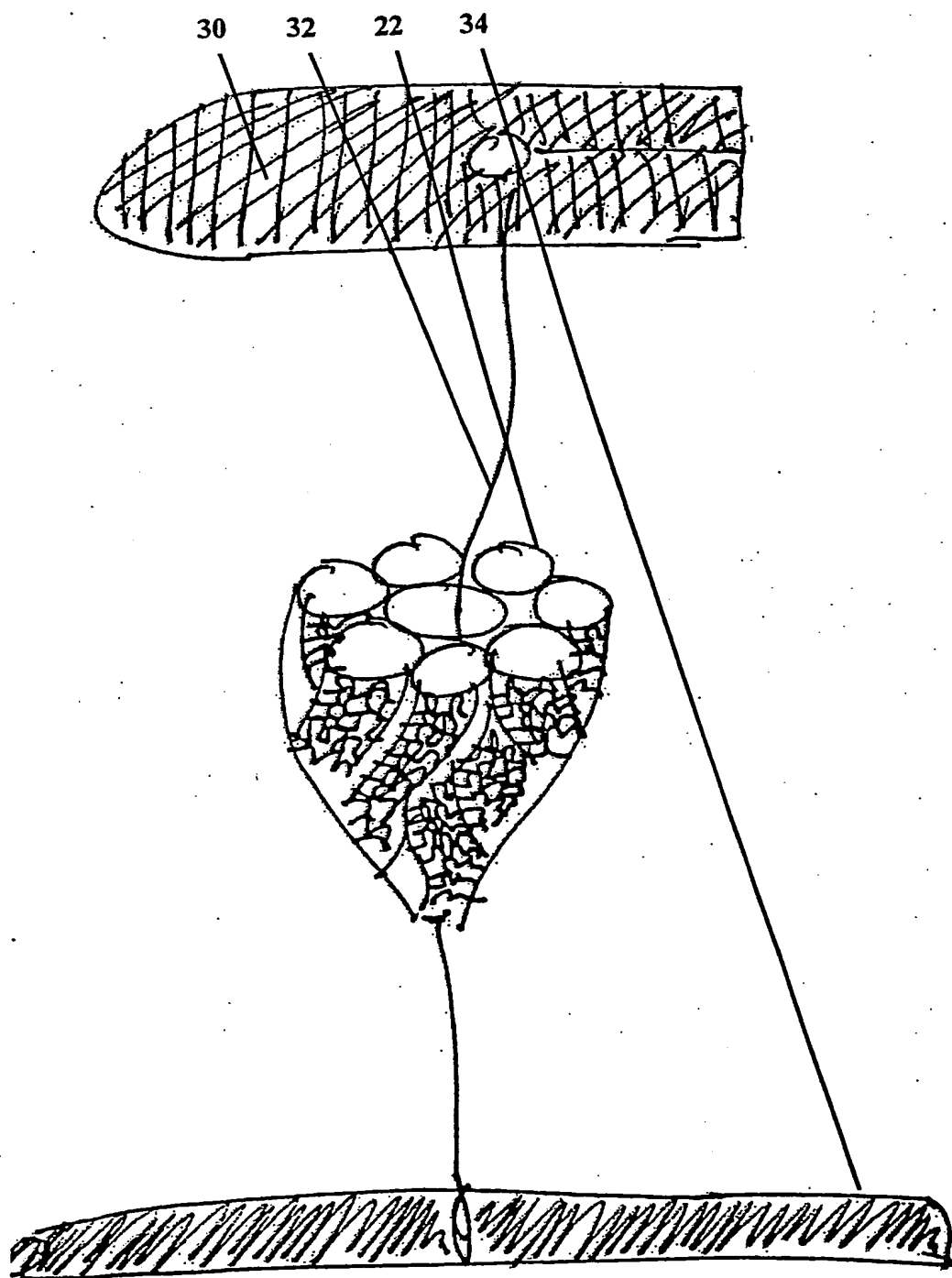


FIG 6A

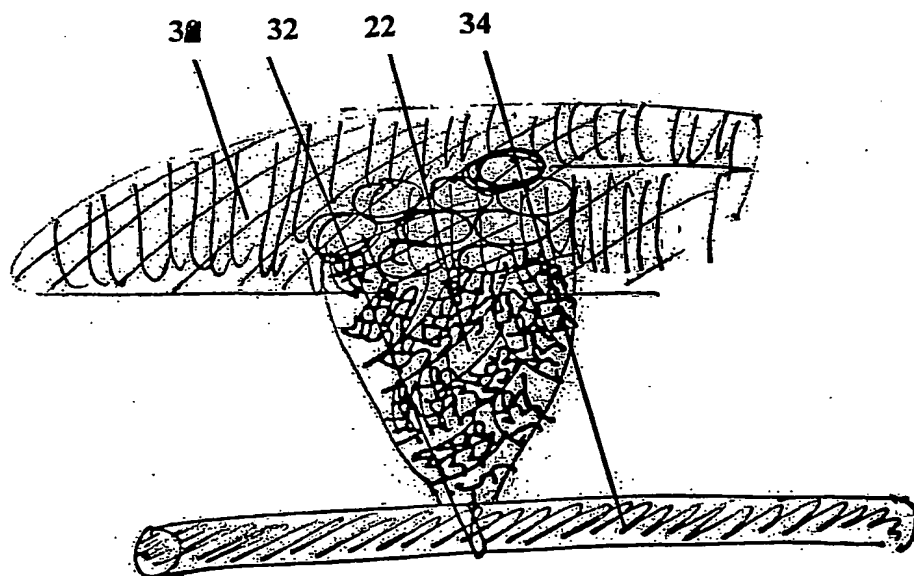


FIG 6B

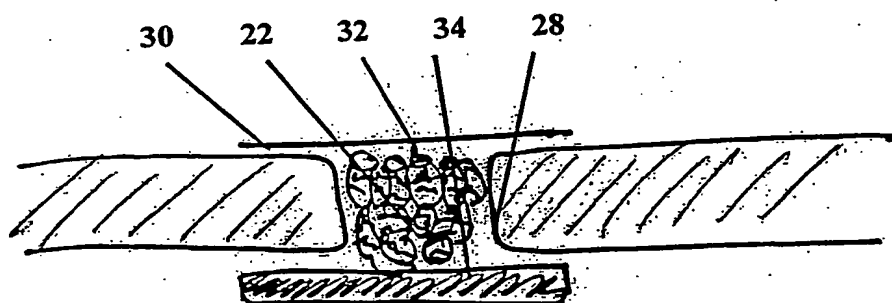
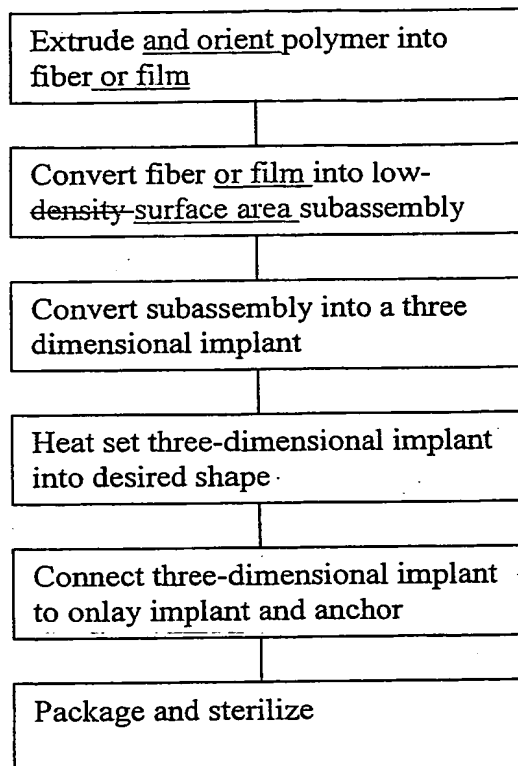


FIG 6C

Method for producing soft tissue implantFIG. 7

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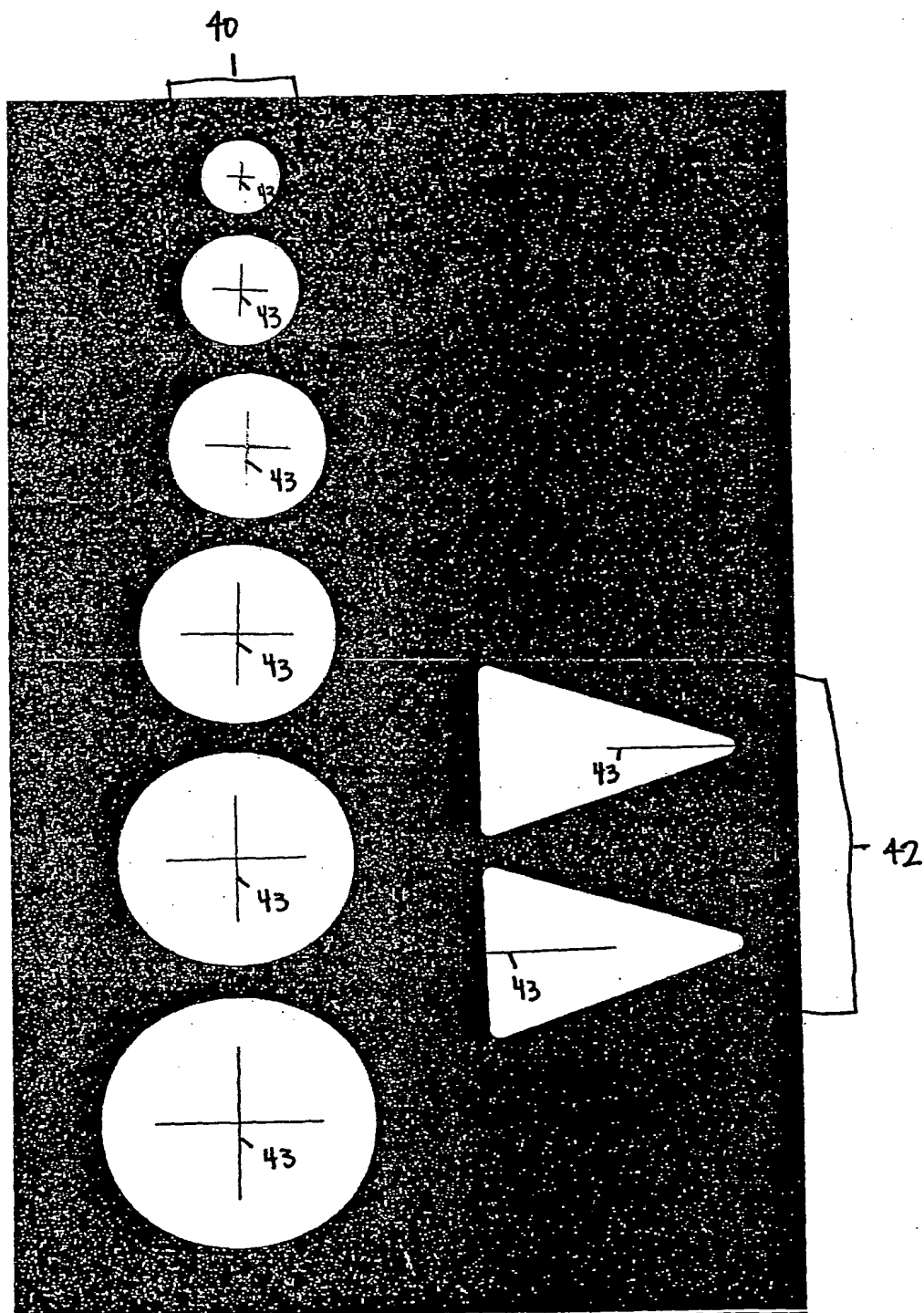


Figure 8A

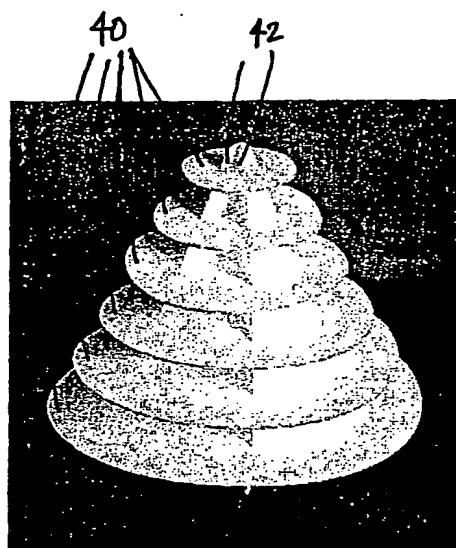


Figure 8B

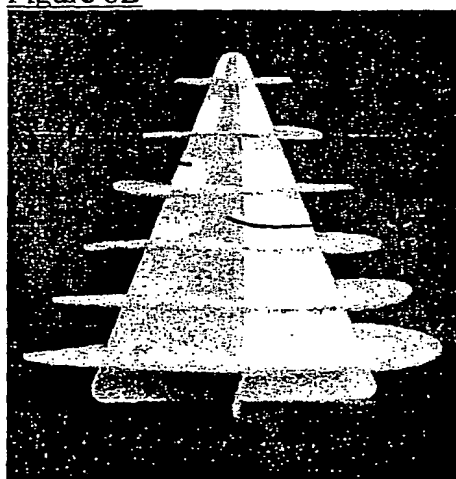


Figure 8C

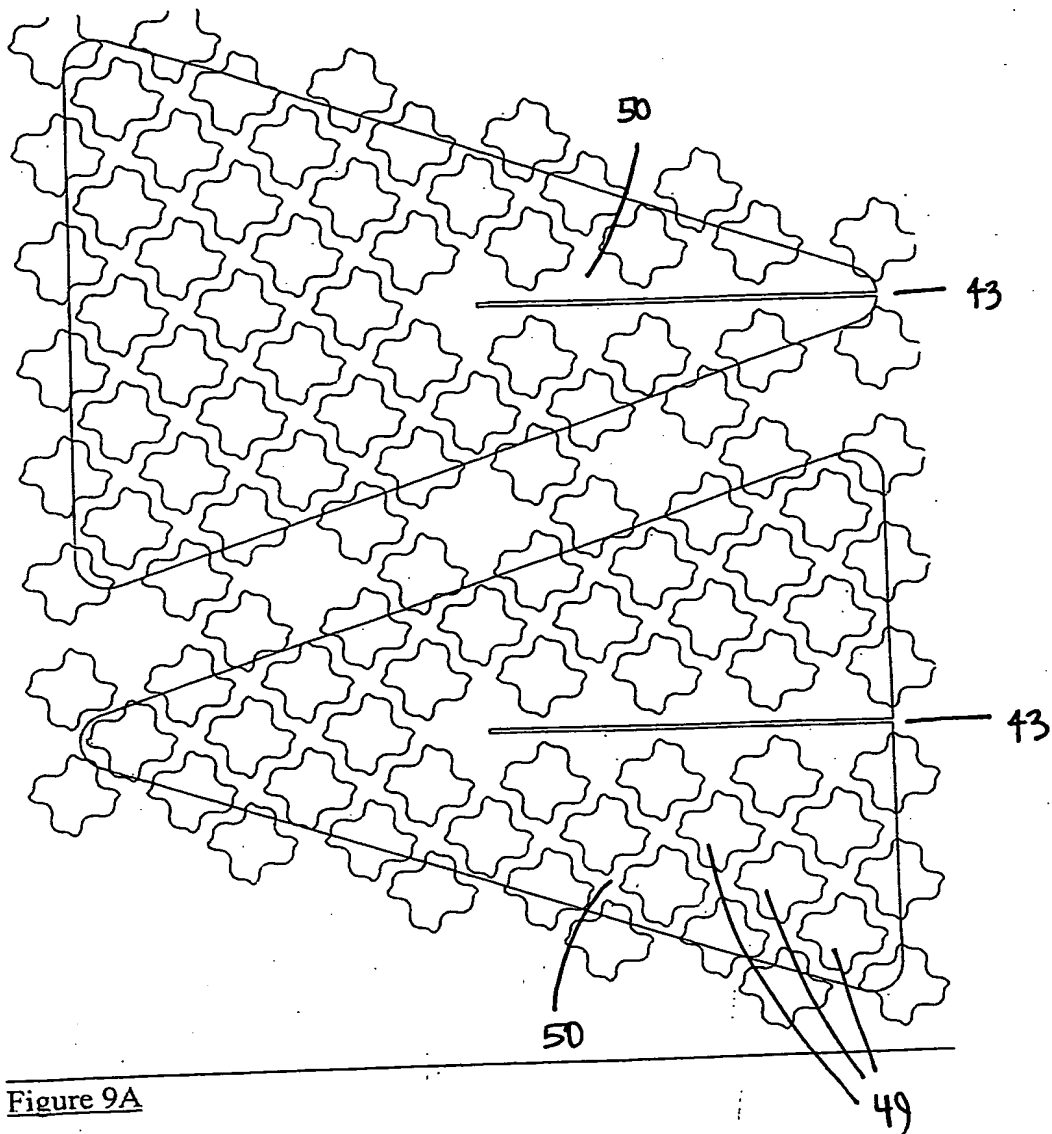


Figure 9A

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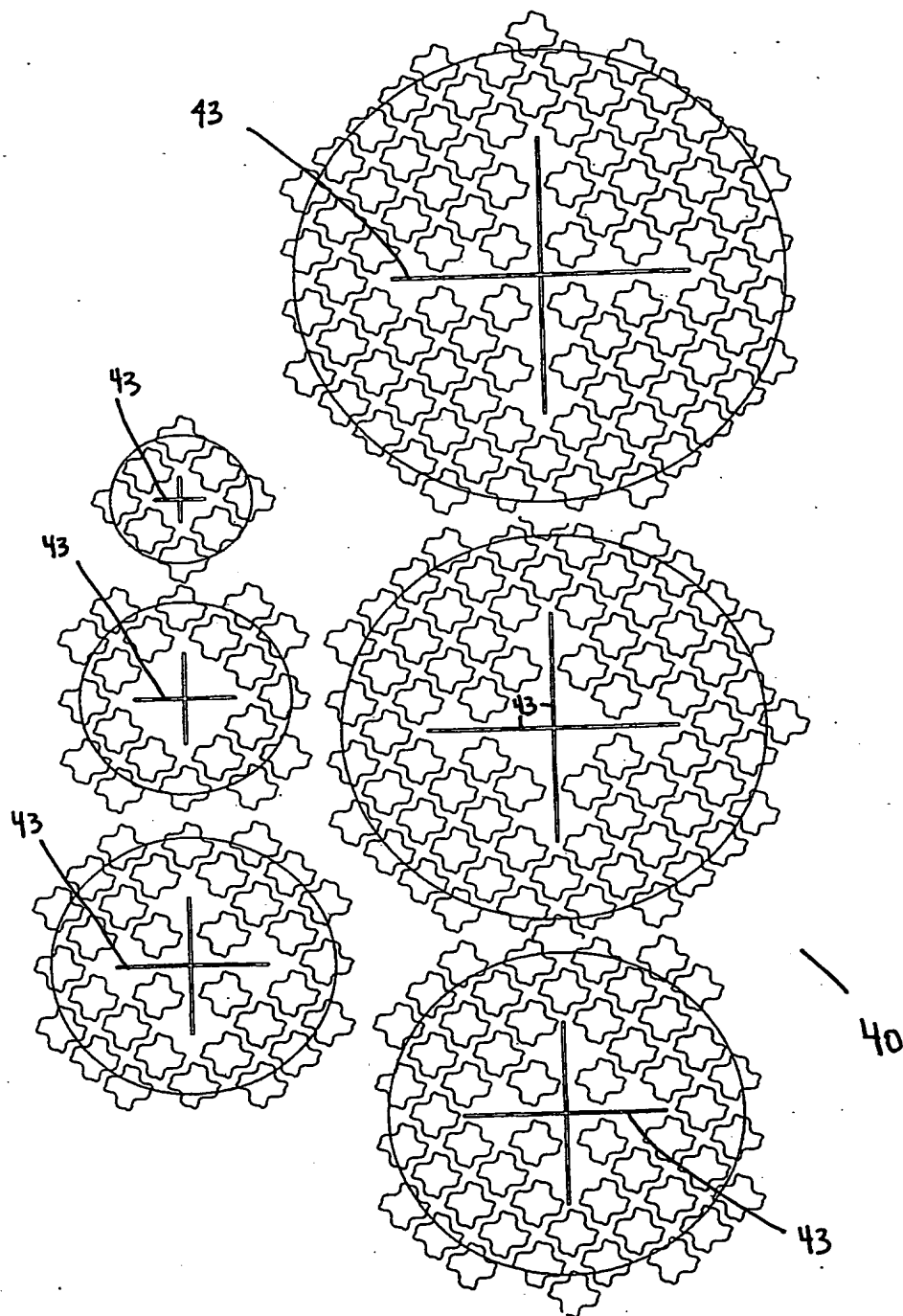


Figure 9B

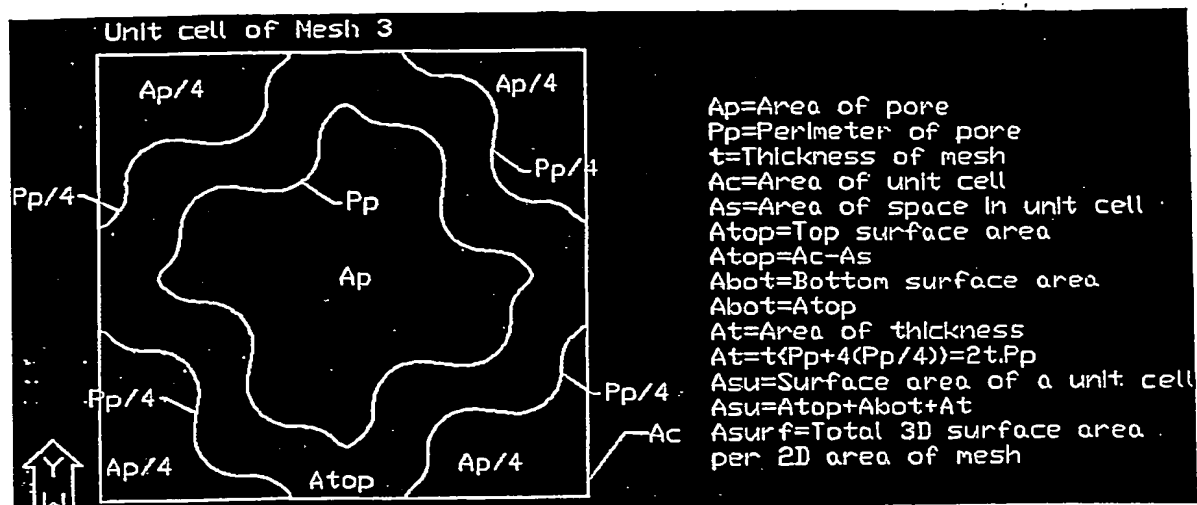


Fig. 9C

Method for Calculating Mesh3 Surface Area

Area of pore	A_p	10.89	mm ²
Perimeter of pore	P_p	15.08	mm
Thickness	t	0.20	mm
Area of unit cell	A_c	35.48	mm ²

Area of space in unit cell	$A_s = A_p + 4(A_p/4) = 2A_p$	21.78	mm ²
Top surface area	$A_{top} = A_c - A_s$	13.70	mm ²
Bottom surface area	$A_{bot} = A_{top}$	13.70	mm ²
Area of thickness	$A_t = t(P_p + 4(P_p/4))$	6.03	mm ²

3D surface area of a unit cell	$A_{su} = A_{top} + A_{bot} + A_t$	33.43	mm ²
Surface area ratio	$A_{surf} = A_{su}/A_c$	0.94	

Method for Calculating the Surface Area for the Three Dimensional Implant Components

Area of disks	$A_d = \pi(r_1)^2 + \pi(r_2)^2 + \dots$	44.02	cm ²
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<u>Surface area of disks</u>	<u>$Asurfd=Ad*Asurf$</u>	<u>41.38</u>	<u>cm2</u>
<u>Area of supports</u>	<u>$As=((Lsup*Rsup)*1/2)*2$</u>	<u>13.31</u>	<u>cm2</u>
<u>Surface area of supports</u>	<u>$Asurfs=As*Asurf$</u>	<u>12.51</u>	<u>cm2</u>
<u>Surface area of implant</u>	<u>$Asurfi=Asurfd+Asurfs$</u>	<u>53.89</u>	<u>cm2</u>

Fig. 9D

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